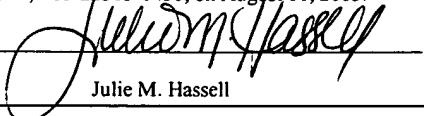


PATENT
Docket No. 514542000105

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 11, 2003.


Julie M. Hassell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Roger O. WILLIAMS, et al

Serial No.: 10/616,766

Filing Date: July 9, 2003

For: ACOUSTICALLY MEDIATED FLUID
TRANSFER METHODS AND USES
THEREOF

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/735,709, filed December 12, 2000, now U.S. Patent No. 6,596,239; and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

Applicants would like to draw the attention of the Examiner to the following co-pending applications, copies of which are included herewith:

Application Serial No.: 10/316,573, Roger O. Williams et al., filed December 10, 2002,

Application Serial No.: 10/402,664, Roger O. Williams et al., filed March 28, 2003,

Application Serial No.: 10/402,695, Roger O. Williams et al., filed March 28, 2003,

Application Serial No.: 10/402,707, Roger O. Williams et al., filed March 28, 2003,

Application Serial No.: 10/402,747, Roger O. Williams et al., filed March 28, 2003, and

Application Serial No.: 10/444,914, Roger O. Williams et al., filed May 22, 2003.

This Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - A fee is required. A check in the amount of __ is enclosed.
 - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of __ is enclosed.

- A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

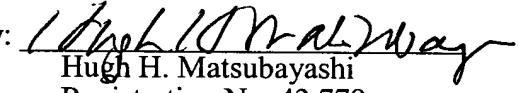
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 514542000105. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: August 11, 2003

Respectfully submitted,

By: 
Hugh H. Matsubayashi
Registration No. 43,779

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5632
Facsimile: (650) 494-0792

Form PTO-1449 INFORMATION DISLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket Number 514542000105	Application Number 10/616,766
		Applicant	Roger O. WILLIAMS, et al
		Filing Date July 9, 2003	Group Art Unit Not Yet Assigned
		Mailing Date August 11, 2003	

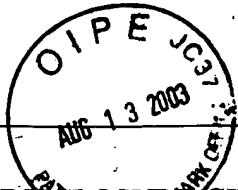
U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	03/28/2002	2002/0037359	Mutz et al.			
	2.	03/28/2002	2002/0037375	Ellson et al.			
	3.	03/28/2002	2002/0037527	Ellson et al.			
	4.	03/28/2002	2002/0037579	Ellson et al.			
	5.	04/11/2002	2002/0042077	Ellson			
	6.	05/23/2002	2002/0061258	Mutz et al.			
	7.	05/23/2002	2002/0061598	Mutz et al.			
	8.	05/30/2002	2002/0064808	Mutz et al.			
	9.	05/30/2002	2002/0064809	Mutz et al			
	10.	07/04/2002	2002/0085063	Mutz et al.			
	11.	07/04/2002	2002/0086319	Ellson et al.			
	12.	07/11/2002	2002/0090720	Mutz et al.			
	13.	10/03/2002	2002/0142286	Mutz et al.			
	14.	10/24/2002	2002/0155231	Ellson et al.			
	15.	09/09/1975	3,903,990	Tannaka			
	16.	09/30/1980	4,225,951	Menin et al.			
	17.	12/29/1981	4,308,547	Lovelady et al.			
	18.	05/24/1983	4,385,255	Yamaguchi et al.			
	19.	01/15/1985	4,493,795	Nestor, Jr. et al.			
	20.	08/12/1986	4,605,009	Pourcelot et al.			
	21.	09/29/1987	4,697,195	Quate et al.			
	22.	01/12/1988	4,719,476	Elrod et. al.			
	23.	01/12/1988	4,719,480	Elrod et al.			
	24.	05/17/1988	4,745,419	Quate et al.			
	25.	05/31/1988	4,748,461	Elrod			
	26.	06/07/1988	4,749,900	Hadimioglu et al.			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



Form PTO-1449

INFORMATION DISLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 514542000105	Application Number 10/616,766
Applicant	Roger O. WILLIAMS, et al
Filing Date July 9, 2003	Group Art Unit Not Yet Assigned
Mailing Date August 11, 2003	

27.	06/14/1988	4,751,529	Elrod et al.				
28.	06/14/1988	4,751,530	Elrod et al.				
29.	06/14/1988	4,751,534	Elrod et al.				
30.	11/01/1988	4,782,350	Smith et al.				
31.	01/10/1989	4,797,693	Quate				
32.	01/31/1989	4,801,950	Frehling				
33.	01/31/1989	4,801,953	Quate				
34.	09/19/1989	4,867,517	Rawson				
35.	09/25/1990	4,959,674	Khuri-Yakub et al.				
36.	07/02/1991	5,028,937	Khuri-Yakub et al.				
37.	08/20/1991	5,041,849	Quate et al.				
38.	12/03/1991	5,070,488	Fukushima et al.				
39.	12/24/1991	5,074,649	Hamanaka				
40.	02/11/1992	5,087,931	Rawson				
41.	05/05/1992	5,111,220	Hadimioglu et al.				
42.	05/26/1992	5,115,809	Saitoh et al.				
43.	06/09/1992	5,121,141	Hadimioglu et al.				
44.	06/16/1992	5,122,818	Elrod et al.				
45.	08/25/1992	5,142,307	Elrod et al.				
46.	11/17/1992	5,163,436	Saitoh et al.				
47.	01/05/1993	5,176,140	Kami et al.				
48.	03/02/1993	5,191,354	Quate				
49.	03/16/1993	5,194,880	Elrod et al.				
50.	06/01/1993	5,216,451	Rawson et al.				
51.	07/20/1993	5,229,793	Hadimioglu et al.				
52.	07/27/1993	5,231,426	Sweet				
53.	12/07/1993	5,268,610	Hadimioglu et al.				
54.	01/11/1994	5,278,028	Hadimioglu et al.				
55.	02/15/1994	5,287,126	Quate				

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

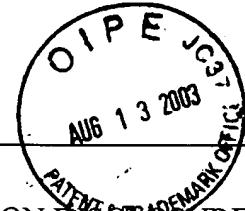
Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket Number 514542000105	Application Number 10/616,766
		Applicant	Roger O. WILLIAMS, et al
		Filing Date July 9, 2003	Group Art Unit Not Yet Assigned
		Mailing Date August 11, 2003	

56.	04/05/1994	5,299,578	Rotteveel et al.
57.	04/19/1994	5,305,016	Quate
58.	08/16/1994	5,339,101	Rawson et al.
59.	01/10/1995	5,379,865	Berdich et al.
60.	02/14/1995	5,389,956	Hadimioglu et al.
61.	06/27/1995	5,428,381	Hadimioglu et al.
62.	09/12/1995	5,450,107	Rawson
63.	04/02/1996	5,504,564	Snelling et al.
64.	05/28/1996	5,520,715	Oeftering
65.	07/30/1996	5,541,627	Quate
66.	10/15/1996	5,565,113	Hadimioglu et al.
67.	12/31/1996	5,589,864	Hadimioglu
68.	01/07/1997	5,591,490	Quate
69.	03/04/1997	5,608,433	Quate
70.	03/18/1997	5,612,723	Shimura et al.
71.	05/13/1997	5,629,724	Elrod et al.
72.	05/20/1997	5,631,678	Hadimioglu et al.
73.	09/23/1997	5,669,389	Rotteveel et al.
74.	09/23/1997	5,669,971	Bok et al.
75.	11/11/1997	5,686,945	Quate et al.
76.	11/25/1997	5,692,068	Bryenton et al.
77.	01/20/1998	5,709,737	Malhotra et al.
78.	03/03/1998	5,722,479	Oeftering
79.	08/25/1998	5,798,779	Nakayasu et al.
80.	09/15/1998	5,808,636	Stearns
81.	09/22/1998	5,810,009	Mine et al.
82.	10/13/1998	5,821,958	Lim
83.	03/02/1999	5,877,800	Robinson et al.
84.	06/15/1999	5,912,679	Takayama et al.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 514542000105	Application Number 10/616,766
Applicant	Roger O. WILLIAMS, et al
Filing Date July 9, 2003	Group Art Unit Not Yet Assigned
Mailing Date August 11, 2003	

85.	12/21/1999	6,003,388	Oeftering			
86.	12/28/1999	6,007,183	Horine			
87.	01/18/2000	6,015,880	Baldeschwieler et al.			
88.	02/01/2000	6,019,814	Horine			
89.	02/29/2000	6,029,518	Oeftering			
90.	03/21/2000	6,038,752	Finsterwald et al.			
91.	04/11/2000	6,048,050	Gundlach et al.			
92.	10/17/2000	6,134,291	Roy et al.			
93.	10/24/2000	6,136,210	Biegelsen et al.			
94.	11/07/2000	6,142,618	Smith et al.			
95.	11/28/2000	6,154,236	Roy et al.			
96.	12/12/2000	6,159,013	Parienti			
97.	02/13/2001	6,187,211	Smith et al.			
98.	03/13/2001	6,200,491	Zesch et al.			
99.	10/09/2001	6,299,272	Baker et al.			
100.	11/06/2001	6,312,121	Smith et al.			
101.	01/08/2002	6,336,696	Ellson et al.			
102.	04/09/2002	6,368,482	Oeftering et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	103.	06/30/1993	EP 0 549 244	Europe			
	104.	06/03/1998	EP 0 845 357	Europe			
	105.	03/28/2002	WO 02/24323	WIPO			
	106.	03/28/2002	WO 02/24324	WIPO			
	107.	03/28/2002	WO 02/24325	WIPO			
	108.	04/04/2002	WO 02/26394	WIPO			
	109.	04/04/2002	WO 02/26756	WIPO			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

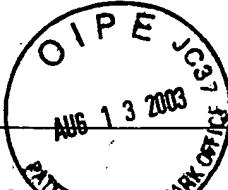
Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Docket Number 514542000105	Application Number 10/616,766			
					Applicant		Roger O. WILLIAMS, et al		
					Filing Date July 9, 2003		Group Art Unit Not Yet Assigned		
					Mailing Date August 11, 2003				

	110.	06/06/2002	WO 02/44319	WIPO				
	111.	06/13/2002	WO 02/47075	WIPO				
	112.	06/20/2002	WO 02/47820	WIPO				
	113.	08/29/2002	WO 02/66713	WIPO				

OTHER DOCUMENTS*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
	114.	Avrameas, S. et al. (1978). "Coupling of Enzymes to Antibodies and Antigens," <i>Scandinavia J. of Immunol.</i> 8(Suppl. 7):7-23.
	115.	DeLuca, D. (1982). "Immunofluorescence Analysis," Chapter 7 <i>In Antibody as a Tool, The Applications of Immunochemistry</i> Marchalonis, J.J. and Warr, G.W. eds., John Wiley & Sons, Ltd., pp. 189-231.
	116.	Galfrè, G. and Milstein, C. (1981). "Preparation of Monoclonal Antibodies: Strategies and Procedures," Chapter 1 <i>In Methods in Enzymology</i> Vol.73 pp. 3-46.
	117.	Goldmann, T. and Gonzalez, J. S. (2000). "DNA-Printing: Utilization of a Standard Inkjet Printer for the Transfer of Nucleic Acids to Solid Supports," <i>Journal of Biochemical and Biophysical Methods</i> 42:105-110.
	118.	Lemieux, B. et al. (1998). "Overview of DNA Chip Technology," <i>Molecular Breeding</i> 4:277-289.
	119.	Lemmo, A.V. et al. (1997). "Characterization of an Inkjet Chemical Microdispenser for Combinatorial Library Synthesis," <i>Analytical Chemistry</i> 69(4):543-551.
	120.	Mandenius, C.F. et al. (1986). "Reversible and Specific Interaction of Dehydrogenases with a Coenzyme-Coated Surface Continuously Monitored with a Reflectometer," <i>Analytical Biochemistry</i> 157: 283-288.
	121.	NASA, Glenn Research Center, (October 2001). "Technology Opportunity: Acoustic Micro-Dispensing," Combustion & Fluids TOP3-00130. Located at: http://technology.nasa.gov/scripts , visited on 9/4/2002. 2 pages.
	122.	NASA, Glenn Research Center, "Acoustic Liquid Manipulation Improves Selective Plating Process," located at: http://technology.nasa.gov/scripts , visited on 9/4/2002. 1 page.
	123.	NASA, Glenn Research Center, "Acoustically Enhanced Electroplating Process," Alchemitron Corporation located at: http://technology.nasa.gov/scripts , visited on 9/4/2002. 1 page.
	124.	NASA, Lewis Research Center, (August 1998). "Technology Opportunity: The Directional Electrostatic Accretion Process," Materials & Structures MS-200-1. Located at: http://technology.nasa.gov/scripts , visited on 9/4/2002. 2 pages.

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	



Form PTO-1449

INFORMATION & MISCELLANEOUS CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 514542000105	Application Number 10/616,766
Applicant	Roger O. WILLIAMS, et al
Filing Date July 9, 2003	Group Art Unit Not Yet Assigned
Mailing Date August 11, 2003	

125.	NASA, Lewis Research Center, (August 1998). "Technology Opportunity: Liquid Manipulation by Acoustic Radiation Pressure," Combustion & Fluids CF-070-1. Located at: http://technology.nasa.gov/scripts , visited on 9/4/2002. 2 pages.
126.	Rodwell, J.D. and McKearn, T.J. (1985). "Linker Technology: Antibody-Mediated Delivery Systems," <i>BIO/TECHNOLOGY</i> 3(10):889-894.
127.	Southern, E.M. and Maskos, U. (1990). "Support-Bound Oligonucleotides," <i>Chemical Abstracts</i> 113(17):835, Abstract No. 152979r.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.